



Rugged Convertible Laptop

Compact, Purpose-Built for Mission-Critical Environments

The DT Research Rugged Convertible Laptops feature the integration of convertible touchscreen, Intel® Core™ i or Core™ Ultra processors, and full-size keyboards. They feature built-in Wi-Fi, BT, optional IR/RGB front cameras for facial recognition, these laptops provide advanced identity verification for secure data access. The optional night vision supports viewing of MIL-STD-3009 class B NVIS mode, offering another layer of security for light-sensitive situations. Rated IP65, MIL-STD-810H/461G and supporting a wide temperature range, the Convertible Rugged Laptops provide reliable operation in harsh, mission-critical environments.

Features



- 11.6", 13.3" or 15.6" high-brightness touchscreen; digital pen support
- Intel® Core™ i or Core™ Ultra processor
- Microsoft® Windows® 11 IoT Enterprise operating system
- Backlit keyboard with multi-touchpad
- Fanless, robust design with antimicrobial coating
- Hot-swappable batteries for 24/7 operation
- Modular design to easily replace the SSD and batteries
- IP65-rated for water and dust resistance
- MIL-STD-810H for shock and vibration protection
- MIL-STD-461G for EMI and EMC tolerance
- HERO (Hazard of Electromagnetic Radiation to Ordnance) certified



Major Options

- 4K resolution screen (LT350/LT360PA)
- MIL-STD-3009 class B night vision screen
- 5MP front full-HD camera or 2MP IR camera
- 4G LTE/AWS
- GPS module (LT320/LT330/LT350/LT360PA)
- Embedded NVIDIA RTX™ graphics card (LT355)
- 2D barcode scanner (LT360PA)
- CAC card reader (LT360PA)

Specifications



Model	LT320	LT330	LT360PA
System			
CPU	Intel® Core™ i7-10710U, 6-core, 1.1 GHz (up to 4.7 GHz)	Intel® Core™ i5-1240P, 12-core, up to 4.4 GHz Intel® Core™ i7-1260P, 12-core, up to 4.7 GHz	Intel® Core™ Ultra 5 processor 225H, 14-core up to 4.9 GHz Intel® Core™ Ultra 7 processor 255H, 16-core up to 5.1 GHz
RAM	8GB to 64GB (dual-slot)	8GB to 64GB (dual-slot)	Ultra 5: 16GB LPDDR5 Ultra 7: 16GB to 32GB LPDDR5 512GB to 2TB SSD (supports removable SSD and RAID)
Storage	512GB to 2TB SSD	512GB to 2TB SSD	
Operating System	Microsoft® Windows® 11 IoT Enterprise		
NIST Compliance	NIST compliant BIOS available		
Smart Card/CAC Reader	Full-slot, reads ISO 7816 T=0, T=1; 1.8/3/5V smart card		Full-slot, reads ISO 7816 T=0, T=1; 1.8/3/5V smart card (optional)
Buttons	1 x power button, 2 x programmable buttons, 2 x brightness control buttons, 1 x NVIS/normal toggle		1 x power button, 1 x 2D scanner or NVIS mode trigger button, 2 x brightness touch buttons, 2 x programmable touch buttons
Microphone	Built-in microphone	Built-in microphone	Built-in microphone array
Speaker	Built-in speaker	Built-in speaker	Built-in speaker
Display			
Screen Size	11.6" touchscreen; 16.7M colors	13.3" touchscreen; 16.7M colors	13.3" touchscreen
Resolution	1920 x 1080	1920 x 1080	1920 x 1080, or 3840 x 2160 (optional)
Luminance	Standard high-brightness 1000 nits Optional night vision screen – daylight mode: 800 nits; NVIS mode: 0 to 20 nits. MIL-STD-3009 Class B compliant, providing clear readability of the display with naked eyes in dark environments and does not interfere with NVGs Optional night vision screen – daylight mode: 800 nits; NVIS mode: 0 to 0.7 nits. MIL-STD-3009 Class B compliant, providing clear readability of the display with NVGs in dark environments		
Optical Response Time	25 msec (typical)	25 msec (typical)	25 msec (typical)
Keyboard			
Keys	QWERTY, full row of F1 to F12 function keys; Keys for Windows shortcuts, media controls, screen brightness		
Backlight	Yes	Yes	Yes
Touchpad	Multi-touch	Multi-touch	Multi-touch
Wireless Network Interface			
WLAN	Wi-Fi 802.11ax, 2.4/5 GHz dual band	Wi-Fi 802.11ax, 2.4/5 GHz dual band	Wi-Fi 802.11ax 2.4/5/6 GHz three band
BT	5.2	5.2	5.4
I/O Ports			
USB Port	2 xUSB 3.0 , 1 x latest USB/charging		2 x USB-A, 1 x latest USB/charging (optional: additional 1 x latest USB/charging)
Ethernet	Ethernet 10/100/1000 MB Base-T LAN	Ethernet 10/100/1000 MB Base-T LAN	1 x 10/100/1000 MB Base-T RJ45 LAN (optional: additional 1 x RJ45)
COM Port	N/A	1	N/A
HDMI-out	1	1	1
Audio Jack	1 (3.5 mm)	1 (3.5 mm)	1 (3.5 mm)
DC-in Jack	1	1	1
SD Card Reader	N/A	N/A	1
Nano SIM Card Slot	N/A	N/A	1
Mechanical and Environmental			
AC/DC Adapter	Input: 100 to 240V AC; Output: 19V DC, 3.42A		Input: 100-240V AC; Output: 19V, 230W
Battery Pack	1 x Hot-swappable battery (11.4V, 5400mAh) (Optional) 1 x Hot-swappable battery (11.4V, 8000mAh)	2 x Hot-swappable batteries (11.4V, 5400mAh) (Optional) 2 x Hot-swappable batteries (11.4V, 8000mAh)	2 x Hot-swappable batteries (11.4V, 5400mAh) (Optional) 2 x Hot-swappable batteries (11.4V, 8000mAh)
Enclosure	ABS + PC plastic and magnesium-aluminum alloy with antimicrobial coating		
Dimensions (H x W x D)	1.7 x 12.8 x 10.6 in/43 x 326 x 268 mm	1.41 x 13.82 x 9.84 in/35.74 x 351 x 250 mm	1.22 x 13.66 x 9.84 in/31 x 347 x 250 mm
Weight	6.3 lbs/2.86 kg	7.5 lbs/3.4 kg	6.21lbs/2.82 kg (with battery)
Durability	IP65, MIL-STD-810H and MIL-STD-461G certified		
Hazard of Electromagnetic Radiation to Ordnance (HERO) Testing	Yes	Yes	Yes
Regulatory	FCC Class B, CE, RoHS compliant		CE, FCC Class B, CB, RCM, EPEAT, Energy Star 8.0
Temperature	Operation: -10°C to 60°C (14°F to 140°F), Optional -30°C to 60°C (-22°F to 140°F) Storage: -55°C to 70°C (-67°F to 158°F)		
Humidity	0% to 90% non-condensing		
Kensington Lock	1	1	1
Major Options			
Camera	5 MP front full-HD camera with auto white balance and gain/exposure control		2 MP IR camera with privacy cover; supports Windows Hello
Mobile Broadband	4G LTE/AWS	4G LTE/AWS	4G LTE/AWS
Graphics Card	N/A	N/A	N/A
GNSS	GPS	GPS	GPS
RFID Reader	N/A	N/A	Dual frequency (reads 125 KHz and 13.56 MHz credentials)
Barcode Scanner	N/A	N/A	2D barcode scanner (reads 1D and 2D)
Smart Card/CAC Reader	Default	Default	Full slot (reads ISO 7816 T=0, T=1); 1.8/3/5V smart card

* Specifications subject to change without notice.

Specifications



Model	LT350	LT355
System		
CPU	Intel® Core™ i5-1240P, 12-core, up to 4.4 GHz Intel® Core™ i7-1260P, 12-core, up to 4.7 GHz	Intel® Core™ i5-1340P, 12-core, up to 4.6 GHz Intel® Core™ i7-1370P, 14-core, up to 5.2 GHz
RAM	8GB to 64GB (dual-slot)	8GB to 64GB (dual-slot)
Storage	512GB to 2TB SSD	512GB to 2TB SSD
Operating System	Microsoft® Windows® 11 IoT Enterprise	
NIST Compliance	NIST compliant BIOS available	
Smart Card/CAC Reader	Full-slot, reads ISO 7816 T=0, T=1; 1.8/3/5V smart card	
Buttons	1 x power button, 2 x programmable buttons, 2 x brightness control buttons, 1 x NVIS/normal toggle	1 x power button, 4 x programmable touch buttons
Microphone	Built-in microphone	Built-in microphone
Speaker	Built-in speaker	Built-in speaker
Display		
Screen Size	15.6" touchscreen; 16.7M colors	15.6" high-brightness 1200 nits touchscreen
Resolution	1920 x 1080, or 3840 x 2160 (optional) Standard high-brightness 1000 nits	1920 x 1080 Standard high-brightness 1200 nits
Luminance	Optional night vision screen – daylight mode: 800 nits; NVIS mode: 0 to 20 nits. MIL-STD-3009 Class B compliant, providing clear readability of the display with naked eyes in dark environments and does not interfere with NVGs Optional night vision screen – daylight mode: 800 nits; NVIS mode: 0 to 0.7 nits. MIL-STD-3009 Class B compliant, providing clear readability of the display with NVGs in dark environments	
Optical Response Time	25 msec (typical)	25 msec (typical)
Keyboard		
Keys	QWERTY, full row of F1 to F12 function keys; Keys for Windows shortcuts, media controls, screen brightness	
Backlight	Yes	Yes
Touchpad	Multi-touch	Multi-touch
Wireless Network Interface		
WLAN	Wi-Fi 802.11ax, 2.4/5 GHz dual band	Wi-Fi 802.11ax 2.4/5/6 GHz three band
BT	5.2	5.2
I/O Ports		
USB Port	2 x USB 3.0, 1 x latest USB/charging	3 x USB-A
Ethernet	Ethernet 10/100/1000 MB Base-T LAN	Ethernet 10/100/1000 MB Base-T LAN
COM Port	1	1
HDMI-out	1	1
Audio Jack	1 (3.5 mm)	1 (3.5 mm)
DC-in Jack	1	1
SD Card Reader	1	1
Mechanical and Environmental		
AC/DC Adapter	Input: 100 to 240V AC; Output: 19V DC, 3.42A	Input: 100 to 240V AC; Output: 19V, 230W adapter
Battery Pack	2 x Hot-swappable batteries (11.4V, 5400mAh) (Optional) 2 x Hot-swappable batteries (11.4V, 8000mAh)	
Enclosure	ABS + PC plastic & magnesium-aluminum alloy with antimicrobial coating	
Dimensions (H x W x D)	1.41 x 15.16 x 10.57 in/ 35.8 x 385 x 268.5 mm	1.66 x 15.16 x 10.57 in/ 42.05 x 385 x 268.5 mm
Weight	8.95 lbs/4.06 kg	9.70 lbs/4.4 kg
Durability	IP65, MIL-STD-810H and MIL-STD-461G certified	
Hazard of Electromagnetic Radiation to Ordnance (HERO) Testing	Yes	Yes
Regulatory	FCC Class B, CE, RoHS compliant	
Temperature	Operation: -10°C to 60°C (14°F to 140°F), Optional -30°C to 60°C (-22°F to 140°F) Storage: -55°C to 70°C (-67°F to 158°F)	
Humidity	0% to 90% non-condensing	
Kensington Lock	1	1
Major Options		
Camera	5 MP front full-HD camera with auto white balance and gain /exposure control	N/A
Mobile Broadband	4G LTE/AWS	4G LTE/AWS
Graphics Card	N/A	Embedded MXM GPU module with Embedded NVIDIA RTX™ A1000 or A2000 MXM
GNSS	GPS	N/A

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